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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Akira Yamamoto

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12/27/2005

STAAS & HALSEY LLP

SUITE 700

1201 NEW YORK AVENUE, N.W.

WASHINGTON, DC 20005

EXAMINER

TRAN, HENRY N

ART UNIT

PAPER NUMBER

2674

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/985,780

Applicant(s)

YAMAMOTO ET AL.

Examiner

Henry N. Tran

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2005 and 14 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-7, 10-12, 14-19 and 22-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2-6, 10, 11, 14-18, 22 and 23 is/are allowed.
- 6) ☒ Claim(s) 7, 12, 19 and 24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 November 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The Amendments received October 5, 2005 and September 14, 2005 have been fully considered; and this Office action is in response thereto.

Response to Arguments

1. Applicants' argument regarding the new term "a predetermined value" recited in the amended claims 3, 7, 15 and 19 has been noted. Said new term does not appear in the specification. A clear support or antecedent basis in the specification for the above new term is required in response to this Office action, see MPEP, 608.01 (o).
2. Claims 2-7, 10-12, 14-19 and 22-24 remain pending in this application.
3. Applicants' remarks provided in pages 15 and 16 of the Amendment filed 9/14/05 regarding claims or amended claims 2-6, 10-11, 14-18 and 22-23 have been fully considered; and are overcome the rejections recited in the previous Office action mailed 5/11/05.
4. Applicants' arguments provided in pages 15 and 16 of the Amendment filed 9/14/05 regarding claims 7, 12, 19 and 14 have been fully considered but they are not persuasive because of the following reasons.

(i) Regarding claims 12 and 24, applicants argued that the claimed invention requires that plural arrangement orders of plural subfield in a frame are memorized in accordance with types of images to be displayed, and display is performed with an arrangement order selected from the plural arrangement orders according to judged types of images, wherein the types of images are "a still image" and "a non-still image"; whereas, the Shigeta patent does not disclose the plural arrangement orders of plural subfields in a frame; also, Shigeta does not disclose the judgment of

image type. The examiner respectfully disagree because: (a) In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "the types of images are a still image and a non-still image" are not recited in the rejected claims). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993); and (b) Shigeta does teach that the plural arrangement orders of plural subfields in a frame are defined and memorized in a frame memory (16) in accordance with the image pixel data D, and then display is performed based on the arrangement order selected from said plural arrangement orders according to the image pixel data, see Shigeta Figs. 4 and 5, and the discussion provided in item 8 of the previous Office action.

(ii) Regarding claims 7 and 19, applicants argued that the claimed invention requires that a rest period is divided in correspondence with plural subfields so that a number of the divided rest period is equal to that of the plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield; whereas, none of the cited references discloses or suggests that feature. The examiner respectfully disagree because in item 8 of the previous Office action, the examiner specifically pointed out that Correa et al patent teaches the claimed feature; wherein, a frame period is divided into 2 subfields, which are called two subfield groups G1 and G2, and a rest period is divided into two rest periods, which are VFB1 and VFB2, arranged at the end of the subfields G1 and G2, respectively, see Correa et al. Fig. 3, and the discussion provided in item 8 of the previous Office action.

The rejections of claims 7, 12, 19 and 14 stand as follows.

Drawings

5. The Figs. 14A, 14B and 14C were received on October 5, 2005. These drawings are accepted.
6. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “an original clock frequency” and “an execute signal” (claims 5, 10, 17, 18, 22 and 23) must be shown or the features canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

7. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "a predetermined value".

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 7 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 19 recites the limitation "a length of a rest period in said frame is greater than a predetermined value" in lines 6-7 of claim 7 and lines 7-8 of claim 19. There is insufficient antecedent basis for this limitation in the claim.

It's noted that applicants' remarks provided in page 14 of the Amendment received on 9/14/05 argued that the predetermined value is either zero or the certain value (3.33ms). Clearly, the limitation "a length of a rest period in said frame is greater than a predetermined value" is indefinite for failing to particularly point out which predetermined value (zero or 3.33ms) is used for the comparison.

For the purpose of this Office action, the examiner assumes that the predetermined value of 3.33ms, which is corresponding to when the apparatus is manufactured for 60Hz and it is used at 50Hz.

Claim Rejections - 35 USC § 102

10. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

11. Claims 12 and 24 are stand rejected under 35 U.S.C. 102(e) as being anticipated by Shigeta (U.S. Patent No. 6,369,782) as recited in items 4-6 of the previous Office action mailed 5/11/05.

Claim Rejections - 35 USC § 103

12. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

13. Claims 7 and 19 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Shigeta (U.S. Patent No. 6,369,782) in view of Correa et al (U.S. Patent No. 6,714,250, hereinafter referred to as "Correa") as recited in item 8 of the previous Office action.

Allowable Subject Matter

14. Claims 2-6, 10-11, 14-18 and 22-23 are allowed.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

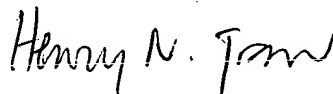
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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry N. Tran whose telephone number is 571-272-7760. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Henry N Tran
Primary Examiner
Art Unit 2674

12/20/05
HT